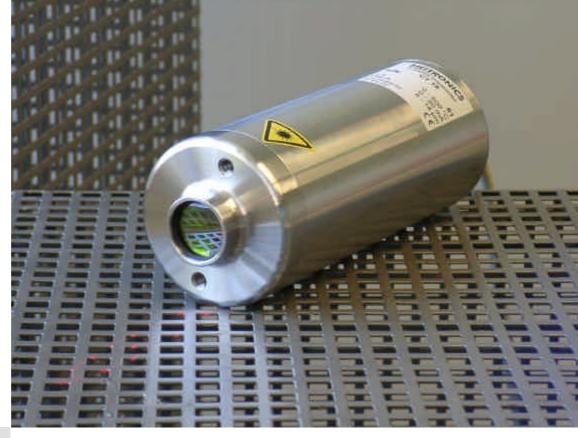
Extreme high
Stability using
Chopped
Radiation Method

Robust Stainless Steel Housing with NEMA 6 Rating

Very high Resolution 0.03°C

Fast Response Times from 5 ms on



Application

Manufacturing and processing of:

- Rubber
- Plastics
- Ceramics
- Varnish
- Food
- Textiles

Beneficial in case of:

- NEMA 6 rating
- precise and drift free measurement
- small targets
- measurement in harsh environments
- very fast measurements
- wide temperature range

Infrared Radiation Thermometer

GT15.10

The Universal Infrared Radiation Thermometer for Non Contact Temperature Measurement



Infrared Radiation Thermometer CT15.10 at a Glance

Features

- Rugged stainless steel housing, NEMA 6
- Wide temperature range from -25°C to 900°C
- Very fast response times ≥ 5 ms (programmable)
- Fields of view as small as 1.7 mm
- Focus laser marks field of view area
- High accuracy (0,7%) and long term stability
- Chopped Radiation Method for very high temp. stability

Functions

- µP based signal operation
- All parameters configurable via serial interface:
 - Temperature measuring range
 - Analog output 0/4-20mA; actual or Min/Max-value
 - Integrated valley/peak picker w/ decay function
 - · Emissivity setting
 - Reflected environmental temperature

	General Specifications
Temperature range	-25°C 900°C
Temperature resolution (NETD)	Depends on measuring temperature and response time, typical value 0,1°C
Accuracy (uncertainty)	± 0.5°C plus 0.7% of the difference between target and housing temperature
Long term stability	Better than 0,01% of the absolute measured temperature per month
Field of view diameter	From Ø 1,7mm, depends on lens
Field of view marking	Focus laser, built-in: aims the size of the field of view in focal distance
	Pilot laser, built-in: aims the center of the field of view in any distance
	More mechanical pointers are available
Laser function	Time out or permanent operation, while flashing or continuous marking
Spectral range	8 – 14 μm
Programmable functions via serial	Emissivity, Environmental temperature, Analog output, Function of analog output,
interface	Response time, Temperature unit, Valley/ Peak-picker with decay function, Laser
	operation
Emissivity	0,100 to 1,000 in 0,001-steps
Response time	from 5 ms to 10 s (0,03, 0,1, 0,3, 1, 3, 10 s)
Temperature unit	°C, °F or K
Analog output (Hardware)	4 scalable output signals, temperature linear
	0-10V, 0-1V, 0-20mA or 4-20mA, Zoom function for temperature span > 50 K
Analog output (Functions)	Actual value, Maximum value or Minimum value
Serial interface	RS232-Interface, bi directional, 9.600 to 115.000 bps, for programming and data transfer
Thermal switch	Monitors the instrument temperature
Power requirements	22-30 VDC or 24 VAC ± 10%, 48-400 Hz
	< 150 mA @ 24 VDC
Permissible operating temperature	-20°C 60°C
Storage temperature	-20°C 70°C
Protective class, Weight	IP67 (IEC), NEMA 6; 1.3 kg
Housing	Stainless steel

Housing dimensions in mm

